

01949031 **Image available**

PREPARATION OF GLASS BODY

Pub. No.: 61-163131 [JP 61163131 A]

Published: July 23, 1986 (19860723)

Inventor: NAGAFUNE HARUO

KANBE SADA O

ITO YOSHITAKA

MOTOKI MASANOBU

MATSUO MASATAKE

Applicant: SEIKO EPSON CORP [000236] (A Japanese Company or Corporation), JP (Japan)

Application No.: 60-000675 [JP 85675]

Filed: January 07, 1985 (19850107)

International Class: [4] C03B-020/00; C01B-033/157; C03B-008/02

JAPIO Class: 13.3 (INORGANIC CHEMISTRY -- Ceramics Industry); 13.2 (INORGANIC CHEMISTRY -- Inorganic Compounds)

Journal: Section: C, Section No. 390, Vol. 10, No. 366, Pg. 100, December 06, 1986 (19861206)

ABSTRACT

PURPOSE: To prepare a glass body having a desired shape by charging a sol consisting essentially of a metal alkoxide in a vessel prepared by combining a shell mold having an optional shape with a freely attachable and detachable core having an optional shape, gelling the sol to a desired shape, detaching the gel thereafter, and drying and sintering the gel.

CONSTITUTION: A mixture of fine pulvererous silica with acid hydrolyzate liquid of silicon alkoxide as starting sol for sol-gel method is charged to a vessel constructed by combining a shell mold 1 (e.g. a mold made of poly propylene) having an optional shape with a core 2 (e.g. a core made of polypropylene, having an optional shape being freely attachable and detachable, and being, if necessary, shrinkable), and the sol is gelled. The core 2 is then removed, and the gel is dried, sintered. Thus, a large sized glass body having an optional shape is obtained